

Lutzia

The genus ***Lutzia***, first described in 1903 by Frederick Vincent Theobald,^[1] includes species whose larval stages exhibit predatory behavior. The type species is *Lutzia bigoti*.^[2]

Bionomics

The genus includes two species with Neotropical distribution, four in Asia and Australasia, one Afrotropical, and one occurring in the Ogasawara Islands of Japan.^[2]

Laboratory experiments on predation by *Lutzia* (*Metalutzia*) *fuscana* under arid conditions showed that it preyed primarily on *Aedes aegypti* larvae, and to lesser extents on *Anopheles stephensi* and *Culex quinquefasciatus* larvae, with an average daily consumption of 18-19 larvae/day, suggesting that under the proper conditions they could be useful in reducing domestic mosquito breeding in mosquito populations in desert environments where due to limited water sources, mosquito vectors must share the available breeding habitat.

<i>Lutzia</i>	
Scientific classification	
Kingdom:	Animalia
Phylum:	Arthropoda
Class:	Insecta
Order:	Diptera
Family:	Culicidae
Genus:	<i>Lutzia</i> <div>Theobald, 1903</div>

Subgenera and species

Subgenera and species listed by the Walter Reed Biosystematics Unit:^[3]

- Subgenus *Insulalutzia* Tanaka
 - *Lutzia shinonagai* (Tanaka, Mizusawa and Saugstad)
- Subgenus *Lutzia* Theobald
 - *Lutzia allostigma* Howard, Dyar and Knab
 - *Lutzia bigoti* (Bellardi) (syn. *L. brasiliae* Dyar, and *L. patersoni* Shannon and Del Ponte)
- Subgenus *Metalutzia* Tanaka
 - *Lutzia agranensis* Singh and Prakash
 - *Lutzia chingmaiensis* Somboon and Harbach, 2019^[4]
 - *Lutzia fuscana* (Wiedemann) (syn. *L. concolor* Robineau-Desvoidy, *L. luridus* Doleschall, and *L. setulosus* Doleschall)
 - *Lutzia halifaxii* (Theobald) (syn. *L. aureopunctis* Ludlow, *L. multimaculosus* Leicester, and *L. raptor* Edwards)
 - *Lutzia tigripes* (de Grandpre & de Charmoy) (syn. *L. bimaculata* Theobald, *L. fusca* Theobald, *L. maculicrures* Theobald, *L. mombasaensis* Theobald, and *L. sierraleonis* Theobald)
 - *Lutzia vorax* Edwards

References

1. Frederick V. Theobald. 1903. *A monograph of Culicidae or mosquitoes*, III. London: British Museum (Natural History). xv + 359pp.; 155; <http://www.mosquitocatalog.org/files/pdfs/131700-8.Pdf> Archived (<https://web.archive.org/web/20160325153911/http://www.mosquitocatalog.org/files/pdfs/131700-8.Pdf>) 2016-03-25 at the [Wayback Machine](#).
2. Thomas V. Gaffigan, Richard C. Wilkerson, James E. Pecor, Judith A. Stoffer and Thomas Anderson. 2016a. "Lutzia" in *Systematic Catalog of Culicidae*, Walter Reed Biosystematics Unit, <http://wrbu.si.edu/generapages/lutzia.htm> Archived (<https://web.archive.org/web/20160304145255/http://wrbu.si.edu/generapages/lutzia.htm>) 2016-03-04 at the [Wayback Machine](#), accessed 21 Feb 2016.
3. Thomas V. Gaffigan, Richard C. Wilkerson, James E. Pecor, Judith A. Stoffer and Thomas Anderson. 2016b. "Genus Lutzia Theobald" in *Systematic Catalog of Culicidae*, Walter Reed Biosystematics Unit, http://www.mosquitocatalog.org/taxon_descr.aspx?ID=38, accessed 21 Feb 2016.
4. Pradya Somboon and Ralph E Harbach. 2019. *Lutzia (Metalutzia) Chiangmaiensis* n. sp. (Diptera: Culicidae), Formal Name for the Chiang Mai (CM) Form of the Genus *Lutzia* in Thailand. *Journal of Medical Entomology*, tJz072, <https://doi.org/10.1093/jme/tjz072>, published 30 May 2019.

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